

Attachment 4: Work Plan

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The following sections describe the necessary tasks to complete each of the three projects included in the Mokelumne/Amador/Calaveras Prop 84 IRWM 2015 Implementation Grant Application. Tasks are organized in the following four budget categories: (a) Direct Project Administration, (b) Land Purchase / Easement, (c) Planning/Design/Engineering/Environmental Documentation, and (d) Construction/Implementation. The status of each task as of August 2015 is shown as a percentage in parentheses after the task name.

Lake Camanche Service Lateral Replacement – Phase 3 Work Plan

Category (a): Direct Project Administration

Task 1: Project Management (10% complete)

Work items under this task include preparation of grant contract documents, general project administration tasks (project start-up coordination meeting, reimbursement requests, communications with UMRWA, and Board communications). UMRWA, the RWMG for the MAC Region, will be responsible for managing and distributing awarded grant funds to the project proponent. This task also includes consultant preparation of this Prop 84, 2015 Implementation Grant Application, which has been completed.

Task 1 Deliverables: DWR grant agreement; UMRWA-AWA grant agreement; Project start-up coordination meeting; Bi-monthly invoices; Reimbursement requests; Project status updates to AWA Board of Directors (up to 2); Consultant proposal for preparing the Prop 84, 2015 Implementation Grant Application

Task 2: Labor Compliance Program (0% complete)

A Labor Compliance Program will be developed and managed by an outside contractor in order to maintain compliance with SB 854 and the Department of Industrial Relation's labor compliance

Task 2 Deliverables: Proof of Labor Compliance (provided upon request)

Task 3: Reporting (0% complete)

Following execution of the grant agreement, bi-monthly reports will be prepared assessing the progress and accomplishments of the Project. A draft and final Project Completion Report will also be prepared at the end of the project. The Bi-monthly Reports to DWR will include the following information.

- Time period covered by the request;
- Description of the activities since the previous report;
- Status of the project relative to the progress schedule;
- An estimate of the percentage of work completed;
- Records of expenditures;
- Percentages of State and total funding expended to date; and
- Key issues that need to be resolved.

A project completion report will also be prepared at the end of the project. The project Completion report will include the following:

- An executive summary (two page maximum);
- Records of expenditures;
- A comparison of the original schedule and the actual schedule;
- A discussion of problems that occurred during construction and how the problems were solved;
- Submittal of any required deliverables that were not previously submitted; and
- A list of required deliverables submitted previously with dates of submittal and DWR acceptance.

AWA will keep records and documents pertaining to the project for three years after project completion.

Task 3 Deliverables: Bi-monthly Reports; Project Completion Report

Category (b): Land Purchase/Easement

Task 4: Land Acquisition (Not applicable)

Land purchase is not required for this project nor will any easements be required.

Task 4 Deliverables: Not applicable

Category (c): Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies (Not applicable)

A Feasibility Study will not be required for the Lake Camanche Lateral Replacement Project – Phase 3 as the project is part of the on-going repair of the aging AWA water system and feasibility has been demonstrated by implementation of the Project's Phases 1 and 2.

Task 5 Deliverables: Not applicable

Task 6: CEQA Documentation (0% complete)

The project involves infrastructure replacement and rehabilitation, and no significant impacts will be generated by the project. Therefore, a Categorical Exemption is anticipated for California Environmental Quality Act (CEQA) compliance. The project will be categorically exempt under Class 2, Replacement or Reconstruction, Section (c) for replacement or reconstruction of existing utility systems and / or facilities involving negligible or no expansion of capacity. The project manager and executive secretary will complete and file the Notice of Exemption (NOE) with the State Clearinghouse and / or County Clerk after November 1, 2015, upon completion of the 10% design.

Task 6 Deliverables: CEQA Notice of Exemption

Task 7: Permitting (0% complete)

Implementation of the Lake Camanche Service Lateral Replacement Project – Phase 3 will require AWA to acquire an Amador County Encroachment Permit. The necessary forms will be completed and submitted to Amador County and AWA staff will coordinate, as necessary, to acquire the permit.

Task 7 Deliverables: Amador County Encroachment Permit

Task 8: Design (0% complete)

After November 1st 2015, AWA will begin design of the Lake Camanche Lateral Replacement Project – Phase 3. A project manager, assistant engineer and distribution supervisor will be assigned to the project and collaborate on the design of the Project. 10% design will be completed by the end of November 2015, and final design will be complete by February 2016. The 10% design will show laterals to be replaced for Phase 3. The 100% / Final Design will be the design package consisting of the signed plans and specifications.

During project design, the following methodologies and standards will be used:

- Amador Water Agency Treated Water Standards for Project Specification;
- American Water Works Association (AWWA) materials standards;
- American Society for Testing and Materials (ASTM) standards;
- Amador Water Agency hydraulic modeling standards (H2ONet); and
- Others as identified as applicable.

Additionally, during design, AWWA and ASTM Construction Standards, AWWA Standard Specifications, and Occupational Safety & Health Administration (OSHA) regulations and industry standard practice will be used as construction standards and health and safety standards.

Task 8 Deliverables: 10% Design; Final (100%) Design Package

Task 9: Project Performance Monitoring Plan (0% complete)

A Monitoring Plan will be prepared for the Lake Camanche Lateral Replacement Project – Phase 3 to provide a framework for assessing and evaluating the project performance once it is implemented. The Monitoring Plan will identify the measures that will be used to monitor progress toward achieving the specific project goals of reducing / minimizing water losses within AWA's water system, improving water quality and improving water supply reliability. The Monitoring Plan will also provide tools to monitor and measure project processes and will guide final project performance reporting that will fulfill grant agreement requirements.

Task 9 Deliverables: Project Performance Monitoring Plan

Category (d): Construction/Implementation

Task 10: Contract Services (0%)

AWA staff will complete the majority of project construction tasks; however, a contractor will be hired to provide paving assistance during the project. Activities necessary to secure a contractor and award the contract will include the following: develop bid documents, prepare advertisement and contract documents for contract bidding, conduct pre-bid meeting, bid opening and evaluation, selection of the contractor, award of contract, and issuance of notice to proceed.

Task 10 Deliverables: Bid documents; Proof of advertisement; Award of contract; Notice to proceed

Task 11: Construction Administration (0% complete)

During construction, an AWA staff member will act as the construction manager for construction administration tasks for the lateral replacement. Work items will include the following: manage construction activities, coordinate with property owners and other utilities, manage and coordinate all project inquiries, serve as primary point of contact for project correspondence, maintain detailed project records, and inspect completed construction.

Task 11 Deliverables: Communication/correspondence records; field logs; project records

Task 12: Construction (0% complete)

Construction will consist of mobilization and site preparation, project construction, and performance testing and demobilization. These activities are described in detail below as Subtasks 12.1, 12.2 and 12.3.

Subtask 12.1: Mobilization and Site Preparation

AWA staff will mobilize its equipment and crew according to the designated staging plan. Equipment required for construction will include a crane, back hoe, low bed, crew truck, compactor, saw cutter, suction vacuum, and paver; this equipment will be brought to the site during this subtask.

Subtask 12.2: Construction

Construction will involve activities to replace the service laterals. This will consist of potholing to definitively locate the service laterals, followed by disconnecting the service laterals to be replaced, locating the existing service saddle, excavating the existing service saddle, and laying approximately 200 service laterals.

The trenches will be backfilled and the impacted roadways will be repaved. Primary consideration was given to materials approved under AWWA, NSF and the California Department of Public Health (DPH) standards and regulations. Secondary consideration was given to AWA standardization of

materials, cost of materials, durability, and longevity. Construction shall comply with AWWA standards, DPH regulations, and AWA Design Standards.

Subtask 12.3: Performance Testing and Demobilization

Final lateral inspections will be conducted under this subtask, along with all required performance testing, including pressure testing of the laterals in accordance with AWA Standards. Additionally, disinfection and water quality testing will be performed, specifically chlorination and coliform bacterial (Bac-T) testing. Demobilization of all equipment will also occur under this subtask.

Task 12 Deliverables: Project Signage; Interim and final inspection reports; Pressure and leak testing report

Sheep Ranch Drinking Water Compliance Project Work Plan

Category (a): Direct Project Administration

Task 1: Project Management (10% complete)

Work items under this task include the following: preparing grant contract documents; preparing Board agenda items/resolutions, maintaining cash flow; routing purchase orders; performing accounting; attending relevant project meetings; preparing various letters and correspondence; completing reimbursement requests; communicating with UMRWA; directing/coordinating with engineering, operations and maintenance staff; managing consultants and other vendors; and performing public outreach. UMRWA, the RWMG for the MAC Region, will be responsible for managing and distributing awarded grant funds to the project proponent. This task also includes preparation of this Prop 84, 2015 Implementation Grant Application, which has been completed.

Task 1 Deliverables: DWR grant agreement; UMRWA-CCWD grant agreement; Monthly invoices; Reimbursement requests; Board of Directors agendas; Board resolutions; project meeting dates, times and purposes; Consultant proposal for preparing the Prop 84, 2015 Implementation Grant Application

Task 2: Labor Compliance Program (100%)

CCWD has a current Labor Compliance Program (LCP) for Proposition 84 on file with California Department of Industrial Relations (DIR). If current project is funded, CCWD will retain the original developer of the LCP, Kate Kurey of Kurey & Associates, to make any necessary updates to the LCP, conduct LCP pre-construction meetings, perform monitoring during construction, and make necessary reporting to DIR. LCP ID No. 2012.01131 was effective as of October 22, 2013 and still in effect as of June 11, 2015.

Task 2 Deliverables: Necessary reports will be submitted to DIR, and will be furnished to DWR upon request.

Task 3: Reporting (0% complete)

Following execution of the grant agreement, Bi-monthly Reports will be prepared assessing the progress and accomplishments of the Project. A draft and final Project Completion Report will also be prepared at the end of the project. The Bi-monthly Reports to DWR will include the following information.

- Time period covered by the request;
- Description of the activities since the previous report;
- Status of the project relative to the progress schedule;
- An estimate of the percentage of work completed;
- Records of expenditures;
- Percentages of State and total funding expended to date; and
- Key issues that need to be resolved.

A Project Completion report will also be prepared at the end of the project. The Project Completion report will include the following:

- An executive summary (two page maximum);
- Records of expenditures;
- A comparison of the original schedule and the actual schedule;
- A discussion of problems that occurred during construction and how the problems were solved;
- Submittal of any required deliverables that were not previously submitted; and
- A list of required deliverables submitted previously with dates of submittal and DWR acceptance.

AWA will keep records and documents pertaining to the project for three years after project completion.

Task 3 Deliverables: Bi-monthly Reports; Project Completion Report

Category (b): Land Purchase/Easement

Task 4: Land Acquisition (Not applicable)

Land purchase is not required for this project nor will any easements be required.

Task 4 Deliverables: Not applicable

Category (c): Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies (Not applicable)

A Feasibility Study will not be required for the Sheep Ranch Drinking Water Compliance Project as replacement of the system is required by the SWRCB DDW.

Task 5 Deliverables: Not applicable

Task 6: CEQA Documentation (0% complete)

CCWD believes the scope of the project is sufficiently limited strictly to replacement of existing facility such that it's likely a Class 2, Section 15302, Categorical Exemption, which states exempt activity as "replacement or reconstruction of existing structures or facilities on same site having substantially the same purpose and capacity". As due diligence, CCWD will retain a biologist and archeologist to perform one (1) site visit to confirm no resources are present or will be impacted.

Task 6 Deliverables: CEQA Notice of Exemption; Field notes and brief letter reports for biological and cultural resources

Task 7: Permitting (0% complete)

The intent of this project is to replace a water treatment/filter system serving the small, rural community of Sheep Ranch. As a public water system, it is permitted to operate and regulated by the SWRCB DDW. CCWD will be required to obtain approval from DDW, District 10, located in Stockton, CA to make the proposed replacement of the filtration system. Also, CCWD will be required to prepare and resubmit all information for DDW to update the system's permit to operate.

Task 7 Deliverables: Letter Notifying SWRCB DDW including permit application and copies of relevant water system data sheets for amendment to Domestic Water Supply Permit; Approved amended operations permit

Task 8: Design (0% complete)

Civil and mechanical design will be performed by CCWD's registered civil engineers. CCWD must retain a consultant for electrical engineering design; this effort will include the electrical design and also review of shop drawings, answering requests for information, and up to two site visits. Work will include preparation of equipment pre-purchase and procurement documents, and draft and final site/work installation documents.

Task 8 Deliverables: Equipment pre-purchase and procurement documents; Draft and final site/work installation documents

Task 9: Project Performance Monitoring Plan (0% complete)

A Project Performance Monitoring Plan will be prepared that incorporates current, required reporting from the SWRCB DDW. The SWRCB DDW requires submission of an alternative filtration technology report, prepared by a qualified engineer, describing the effectiveness of the plant

operation and summarizing the performance during the first full year of operation in accordance with Title 22 of California Code of Regulations, Section 64653(i). Preparation and submission of this report will constitute a portion of the project performance monitoring plan. Additionally, staff will assemble monthly reports that are routinely sent to the Stockton, CA regional office of SWRCB DDW which provide data showing the improved performance of the plant in treating source water. Staff will also provide reports of trucked water for the Sheep Ranch water service area if needed, though completion of the project is expected to eliminate this need in the future. These two reports will be supplied annually for the 10 year performance monitoring period.

Task 9 Deliverables: Project Performance Monitoring Plan

Category (d): Construction/Implementation

Task 10: Contract Services (0% complete)

Contract services are broken into two subtasks: Subtask 10.1 – Equipment pre-purchase and Subtask 10.2 – Contracting for Electrical/Sitework/Installation of Equipment.

Subtask 10.1: Equipment Pre-Purchase (0% complete)

Under Subtask 10.1, CCWD will advertise for bid the pre-purchase of packaged water treatment plant equipment (either skid mounted microfiltration, ultrafiltration or other filtration technology approved by State Division of Drinking Water) and enter into purchase agreement with manufacturer.

Subtask 10.1 Deliverables: Copy of bids; Board Agenda Item and Resolution Awarding Equipment Pre-Purchase; Copy of Purchase Agreement between District and manufacturer

Subtask 10.2: Contracting for Electrical/Sitework/Installation of Equipment (0% complete)

Under Subtask 10.2, CCWD will complete contract services for electrical/sitework/installation of equipment, including printing/production of bid documents, advertisement for bids, answering RFIs, issuing addenda, conducting pre-bid meeting and site visit, conducting bid opening, evaluating and selecting a bid, preparing agenda item and board resolution, awarding bid, securing bonds and insurance, and executing construction contract.

Subtask 10.2 Deliverables: Copy of bid advertisement; Copy of bids; Board agenda item and resolution awarding contracts; Awarded and signed contracts

Task 11: Construction Administration (0% complete)

Under the Construction Administration task, CCWD will perform construction administration, inspections, review progress payments, conduct meetings, review submittals/shop drawings, coordinate special inspections for electrical work, soils compaction, concrete, etc., and verify compliance with requirements of the labor compliance program. CCWD has water treatment plant operators to be present during testing and startup period and to assist in collecting necessary samples and monitor water quality parameters.

Task 11 Deliverables: Copies of standard construction administrations records will be included into the project completion report

Task 12: Construction (0% complete)

Construction will consist of the following:

- Subtask 12.1: Site Improvements
- Subtask 12.2: Site Electrical and Electrical Service Upgrades
- Subtask 12.3: Equipment Installation
- Subtask 12.4: Demolition and Site Clean-up

Subtask 12.1: Site Improvements (0% complete)

Under Subtask 12.1, site improvements will be implemented that include civil and mechanical improvements such as site grading, drainage, underground piping and valves, tanks, concrete foundations, chemical systems, and a small metal building. CCWD may bid all or part of this work. Alternatively, CCWD may choose to utilize its in-house construction crew to perform some or all of the site work. Best management practices (BMPs) such as scheduling, silt fences, straw, mulch, and fiber rolls will be deployed to prevent unmitigated storm water runoff from the construction site.

Subtask 12.1 Deliverables: Copies of bids, Board agenda items and resolutions for Award of contract; Copies of Construction Contracts; Copies of materials, minor equipment, supplies furnished and installed on the project; Copies of timesheets, hours and wage rates for any District staff performing work

Subtask 12.2: Site Electrical and Electrical Service Upgrades (0% complete)

Subtask 12.2 includes site electrical work that is necessary to transfer power from the main service panel to the new packaged treatment plant and for other site electrical improvements. Basic lighting and HVAC will be provided for the new small building housing the treatment equipment. The two electrical services for existing water treatment plant and exist raw water pumps are only 100-amp, single phase each. One or both electrical services may have to be upgraded.

Subtask 12.2 Deliverables: Copies of invoices for electrical materials and equipment purchased and installed on the project; Copies of shop drawings and invoices for electrical distribution and controls purchased and installed on the project

Subtask 12.3: Equipment Installation (0% complete)

This activity involves removing equipment from delivery truck by crane, moving and positioning the equipment into final location and seismic anchoring of equipment. Next, all above ground piping and above ground electrical connections are completed to the package treatment plant equipment skid. The equipment will then be disinfected, tested, started-up and commissioned for service after verifying all necessary water quality and bacteriological samples. District staff will receive manufacturer training on operation and maintenance of the system.

Subtask 12.3 Deliverables: Copies of daily inspection reports and photos during installation work; Summary of testing and startup data and water quality data demonstrating initial performance of system; Copies of relevant correspondence to/from DDW

Subtask 12.4: Demolition and Site Clean-up (0% complete)

After testing, startup and commissioning of the new plant, the existing facilities no longer needed for service will be dismantled, demolished, and removed from the site. All waste soil, debris, waste/unused construction materials will be removed from the site. All A.C. paving, gravel and other surfacing will be repaired/replaced to make the site functional and accessible.

Subtask 12.4 Deliverables: Copies of daily inspection reports and photos of the completed site; Copies of any invoices for paving work, if work is not performed by a prime contractor and work is contracted separately by District

MAC Region Water Conservation Program Work Plan

The MAC Region Water Conservation Program is a regional conservation program that fulfills many otherwise unachievable water conservation objectives articulated in the MAC Region's IRWM Plan. Under the joint sponsorship of Amador Water Agency (AWA), Calaveras County Water District (CCWD), Amador Tuolumne Community Action Agency (ATCAA), and Foothill Conservancy the MAC Region Water Conservation Program seeks to achieve two ends: supplement existing conservation measures with new programs and initiatives that are tailored to the Region's geographic and demographic conditions, and raise regional awareness of the need and associated benefits of sustained water conservation. Water conservation in the MAC Region, a geographically large, widely rural landscape with many disadvantaged communities, has historically been achieved through independent and oftentimes fragmented programs. To overcome past practices and position the Region for future supply uncertainties, the MAC Conserve Program will be region wide in scope and lead by a full-time MAC Conserve Program Administrator who would be responsible for facilitating the initiation and completion of the MAC Region Water Conservation Program tasks described in this work plan. Working in concert with the to-be-established MAC Conservation Steering Committee (to include the four project partners), the MAC Region Conservation Program Coordinator will coordinate Program activities with the project sponsors and other participating agencies, prepare project performance monitoring plans (refer to Task 9), prepare bi-monthly and final project reports (refer to Tasks 1 and 3), and develop and distribute MAC Conserve Program outreach via radio, website, community events and printed media (refer to Task 10). The Coordinator will be responsible for coordinating activities among all partners and participating agencies to ensure the Program is carried out in an efficient and cohesive manner for the duration of the project.

Category (a): Direct Project Administration

Task 1: Project Management (10% complete)

This task involves preparing grant contract documents and partnership agreements, as well as general project administration tasks (reimbursement requests and communications with UMRWA). UMRWA, the RWMG for the MAC Region, will be responsible for managing and distributing awarded grant funds to the project proponent, and will do so with assistant from the MAC Region Conservation Program Coordinator. This task also includes consultant preparation of this Prop 84, 2015 Implementation Grant Application, which has been completed.

Task 1 Deliverables: DWR grant agreement; UMRWA-AWA grant agreement; AWA-Partner agreements; Bi-monthly invoices; Reimbursement requests; Consultant Contract for preparation of the Prop 84, 2015 Implementation Grant Application

Task 2: Labor Compliance Program

A labor compliance program will be not be required for this project.

Task 2 Deliverables: Not applicable

Task 3: Reporting (0% complete)

Following execution of the grant agreement, Bi-monthly Reports will be prepared to assess the progress and accomplishments of the Project. A draft and final Project Completion Report will also be prepared at the end of the project. The Bi-monthly Reports to DWR will include the following information:

- Time period covered by the request;
- Description of the activities since the previous report;
- Status of the project relative to the progress schedule;
- An estimate of the percentage of work completed;

- Records of expenditures;
- Percentages of State and total funding expended to date; and
- Key issues that need to be resolved.

A project completion report will also be prepared at the end of the project. The Project Completion report will include the following:

- An executive summary (two page maximum);
- Records of expenditures;
- A comparison of the original schedule and the actual schedule;
- A discussion of problems that occurred during construction and how the problems were solved;
- Submittal of any required deliverables that were not previously submitted; and
- A list of required deliverables submitted previously with dates of submittal and DWR acceptance.

Task 3 Deliverables: Bi-monthly Progress Reports; Project Completion Report

Category (b): Land Purchase/Easement

Task 4: Land Acquisition (Not applicable)

Neither land purchase nor easements will be required for this project.

Task 4 Deliverables: Not applicable

Category (c): Planning/Design/Engineering/Environmental Documentation

Task 5: Feasibility Studies (Not applicable)

The MAC Region Water Conservation Program is an extension of ongoing, successful water conservation programs run by the partnering agencies. Therefore, feasibility studies are not necessary.

Task 5 Deliverables: Not applicable

Task 6: CEQA Documentation (Not applicable)

CEQA documentation is not required for this project.

Task 6 Deliverables: Not applicable

Task 7: Permitting (Not applicable)

Permitting is not expected to be necessary for the project; however, under ATCAA's Home-Level Water Conservation for DACs component, construction permits may be necessary for installation of specific equipment. Should permitting be necessary, it will be captured under the contingency component of the budget.

Task 7 Deliverables: Not applicable

Task 8: Design (Not applicable)

Design is not required for the project.

Task 8 Deliverables: Not applicable

Task 9: Project Performance Monitoring Plan (0% complete)

A Monitoring Plan will be prepared for the MAC Region Water Conservation Program to provide a framework for assessing and evaluating implementation of conservation program elements. The Monitoring Plan will identify the measures that will be used to monitor progress toward achieving the specific project goals of improving water conservation through implementation of program components by each partnering agency. The Monitoring Plan will also provide tools to monitor and

measure project processes and will guide final project performance reporting that will fulfill grant agreement requirements. Project goals, desired outcomes, performance indicators, measurement tools and methods, and targets will be developed for this project.

Task 9 Deliverables: Project Performance Monitoring Plan

Category (d): Construction/Implementation

Implementation components required for the MAC Region Water Conservation Program components are described in Tasks 10, 11, and 13.

Task 10: MAC Region Conservation Program Coordinator Outreach and Coordination (0% complete)

The MAC Region Conservation Program Coordinator will develop and distribute MAC Region Conservation Program literature and perform Conservation Program outreach/community awareness campaigns as needed. Outreach will include:

- Preparing outreach materials to include banners, signs, handouts, table tents, television/radio ads
- School Education Program to provide conservation education to students
- Posting notifications on websites and in newspaper ads
- Purchasing drought awareness booklets for adults and children
- Water conservation community meetings
- Designing flyers, postcards, restaurant table tents, and hotel/motel door hangers
- Maintain www.calaverasconserves.com (a website that displays watering restrictions for six water agencies)
- Consistent messaging and advertising of programs for agency websites

The Program Coordinator will also coordinate activities among partners to provide for cohesive program implementation. This will be accomplished through regular phone calls, emails and meetings.

Task 10 Deliverables: MAC Region Water Conservation Program outreach materials

Task 11: Amador Area Water Conservation Program Implementation (0% complete)

The Amador area component of the Water Conservation Program will implement water conservation activities within the AWA service area. Under this task, AWA will complete the following conservation program elements:

- **Conservation Coordinator Position:** AWA will hire a part time Conservation Coordinator who will be designated as AWA's responsible party for program management, tracking, planning, and reporting on AWA conservation program implementation. This will involve staffing and maintaining a trained conservation coordinator position, or equivalent consulting support, and providing the necessary resources to implement conservation best management practices (BMPs).
- **Water Wise Plumbing/Appliance Rebate Programs:** AWA will implement Water Wise Plumbing/Appliance Rebate Programs that will include providing water conservation device giveaways and rebates for indoor water fixtures, including:
 - Mix/Match Plumbing Retrofit Giveaways of high efficiency showerheads, "instant off" sink automatic shut-offs, toilet bowls, faucet aerators, etc. (up to \$20,000 total in fixtures)
 - Rebates for high efficiency washing machines (100 rebates at \$100 each)
 - Rebates for Commercial, industrial and institutional plumbing retrofits (20 rebates at \$155 each)
 - Rebates for high efficiency toilets (100 rebates at \$75 each)

- **Turf Replacement Program / Smart Irrigation System Implementation Program:** AWA will also implement a turf replacement program / smart irrigation system implementation program that will include:
 - Rebates for turf replacement (50,000 sq ft at \$2/sq ft for up to 1,500 sq ft per household)
 - Rebates for “Smart Irrigation Systems” (100 rebates at \$75 each)

AWA will administrate the turf replacement program, including review of customer applications for turf rebates and smart irrigation system rebates. These programs are expected to help reduce water waste.

Task 11 Deliverables: BMP implementation tracking reports; Water Waster Complaint tracking and follow-up

Task 12: Calaveras Area Water Conservation Program Implementation (0% complete)

The Calaveras Area component of the Water Conservation Program will implement water conservation activities within the CCWD and Calaveras Public Utility District (CPUD) service areas. Under this task, CCWD will complete the following conservation program elements:

- **Water Conservation Device Giveaway:** CCWD will provide free water conservation devices to its customers under its Water Conservation Device Giveaway. Giveaways will include:
 - Low-flow showerheads (2,500 showerheads)
 - Five-minute shower timers (2,175 timers)
 - Faucet aerators (2,500 aerators)
 - Toilet leak detection tablets (12,500 tablets)
 - Soil moisture meters (1,250 soil moisture meters)
 - Automatic shutoff hose timers (625 timers)
- **Indoor/Outdoor Conservation Audits:** CCWD will offer home water conservation audits to be performed by a water conservation specialist. The water conservation specialist will perform indoor/outdoor water audits, offer leak detection services, and recommend measures such as low water use appliances and fixtures, adjustments to sprinklers, use of drip irrigation, and turf removal.
- **Water Conservation Rebate Program:** CCWD will include implementation of a water conservation rebate program. Rebates will include:
 - Smart Irrigation Controllers (must be WaterSense certified) (50 controller rebates at \$50 each)
 - High-efficiency toilets (No more than 1.28 GPF) (80 high-efficiency toilets at \$25 each)
 - High-efficiency clothes washers (Energy Star label with water factor of 5.0 or less) (30 high-efficiency clothes washers rebates at \$100 each)
 - Irrigation efficiency upgrades (sprinklers must be 1.1 IPH or less or conversation to drip irrigation system) (50 irrigation efficiency upgrades at \$50 each)

Task 12 Deliverables: Reporting of water conservation devices provided to customers; Home water conservation audit reports; Water conservation device rebate reports

Task 13: Home-Level Water Conservation for Severely Disadvantaged Communities (0% complete)

The Home-Level Water Conservation for Severely Disadvantaged Communities will be implemented by the Amador Tuolumne Community Action Agency (ATCAA). Under this task, ATCAA will complete the following conservation program elements for severely disadvantaged customers within the MAC Region:

- **Installation of:**
 - Low flow showerheads (192 homes)
 - Low flow aerators (240 homes)

- Low flow toilets (84 homes)
- Replacement of:
 - Washing machines (82 homes)
 - Dishwashers (82 homes)
- Winterization of spigots and water pipes (36 homes)
- Adjustment of:
 - Sprinkler systems (36 homes)
 - Sprinkler timers (197 homes)
- Repair of sprinkler valve leaks (41 homes)
- General services as required:
 - Household leak detection and repair
 - Spreading mulch at homes
 - Installing drip irrigation
 - Performing lawn aeration
- Client education:
 - Providing conservation tips through pamphlets provided to homeowners.
 - Helping clients to understand their water bill & the savings that are possible with classes and/or printed materials.
 - Helping clients to understand the optimum temperatures, maintenance schedules, draining, water treatment and operation for pools and spas.

***Task 13 Deliverables:** Household evaluation and program implementation reports; Construction permits (as needed)*

Task 14: DAC Residential Rain Catchment Demonstration and Distribution Project (0% complete)

The DAC Rain Catchment Demonstration and Distribution Project will be implemented by the Foothill Conservancy.

This task involves constructing a rain catchment demonstration project in a DAC, distributing rain barrels, and conducting a public workshop. Foothill Conservancy staff will construct one to two rain-catchment demonstration projects on water agency or other suitable institutional properties, which will be a single tank system to demonstrate rain-catchment projects to the public. Foothill Conservancy will also manage and coordinate all project inquiries, maintain records on the demonstration project, and investigate sites for the community-based demonstration facility. A construction completion report will be provided.

As part of the rain barrel distribution component, the Foothill Conservancy will order 64 530-gallon rain barrels, secure sites for workshop and tank distribution, administer workshop registration, conduct the rain barrel installation training workshops, and distribute the rain barrels to residents of DACs. Foothill Conservancy will also complete post-workshop evaluations to confirm that participants installed the rain barrels. Activities will include random checks for participant installation and participant reporting, review of participant reporting forms, and participant follow-up, as needed. This task also includes implementation of a media campaign for community education on the project and training workshop.

***Task 14 Deliverables:** Project page on Foothill Conservancy website; Records on demonstration project site selection; Invoices and/or receipts for supplies; Payment records for contractor; Demonstration project construction completion report; Registration summary from workshop; Workshop materials; Workshop evaluation forms; Rain barrel program participant reports*